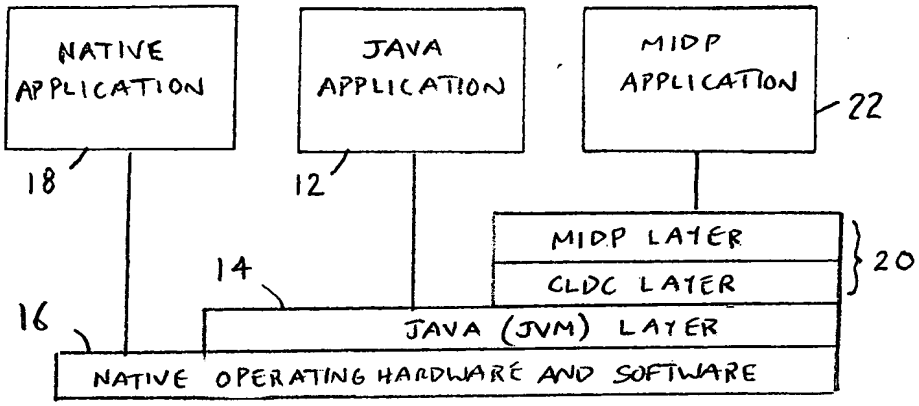

FIG. 1
(PRIOR ART)

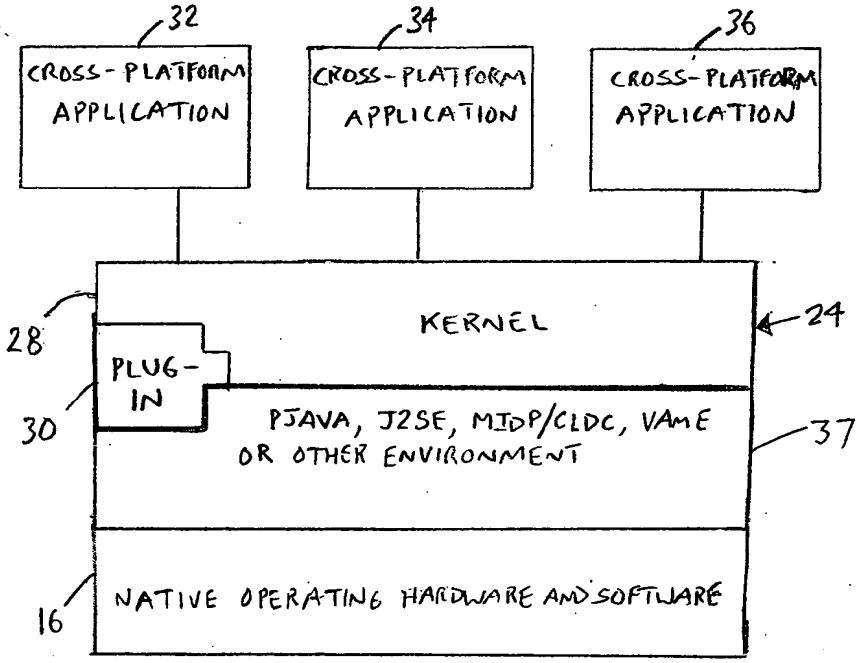

FIG. 2

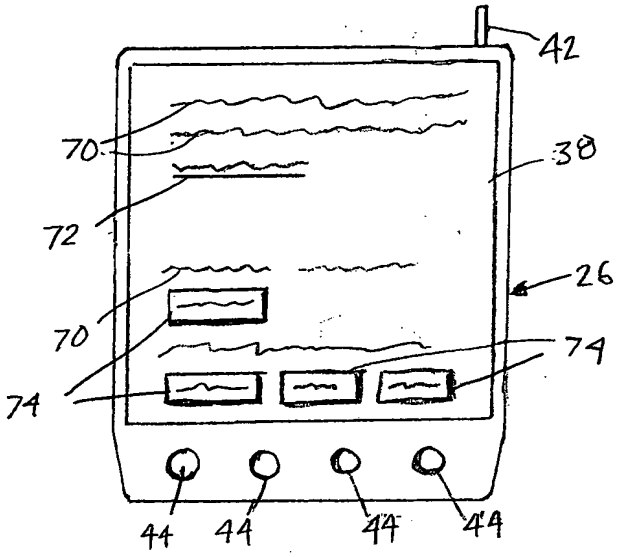
42
70
38
72
26
70
74
74
44
44
44
44

FIG. 3

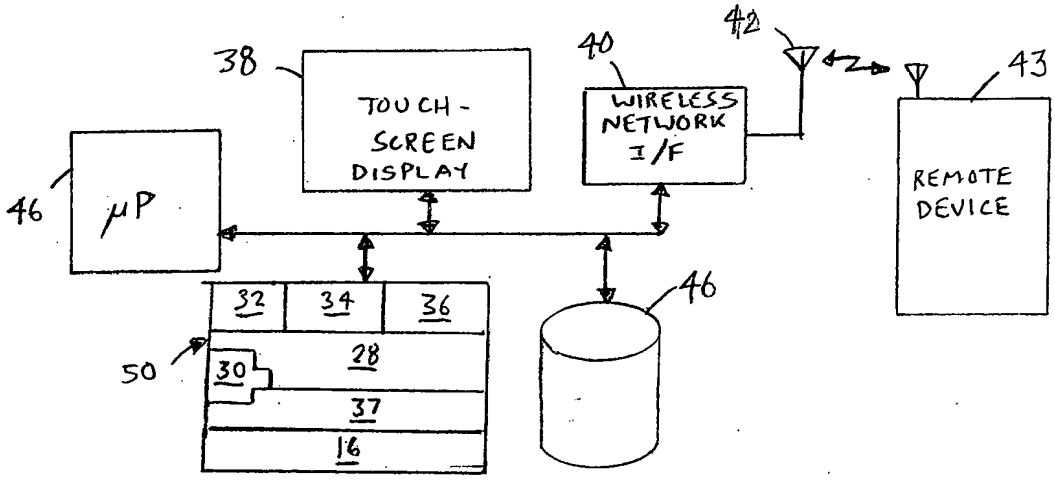
38
TOUCH-SCREEN DISPLAY
40
WIRELESS NETWORK I/F
42
43
REMOTE DEVICE
46
μP
32
34
36
50
30
28
37
16
46

FIG. 4

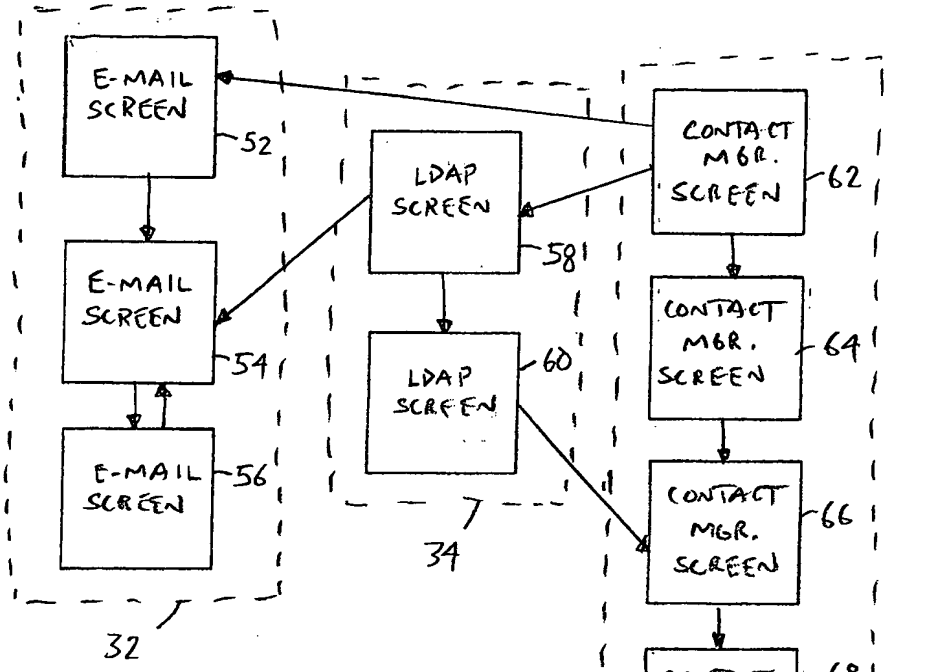
E-MAIL SCREEN
52
E-MAIL SCREEN
54
E-MAIL SCREEN
56
32
LDAP SCREEN
58
LDAP SCREEN
60
34
CONTACT MGR. SCREEN
62
CONTACT MGR. SCREEN
64
CONTACT MGR. SCREEN
66
CONTACT MGR. SCREEN
68
36

FIG. 5

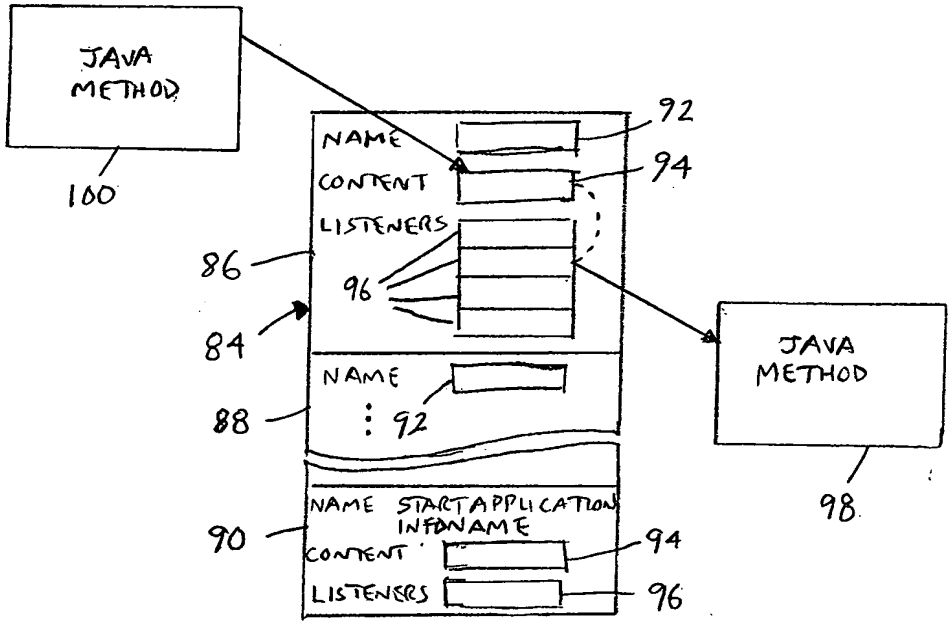
JAVA METHOD
100
NAME
92
CONTENT
94
LISTENERS
96
86
84
NAME
92
88
NAME STARTAPPLICATION INFONAME
CONTENT
94
LISTENERS
96
90
JAVA METHOD
98

FIG. 8

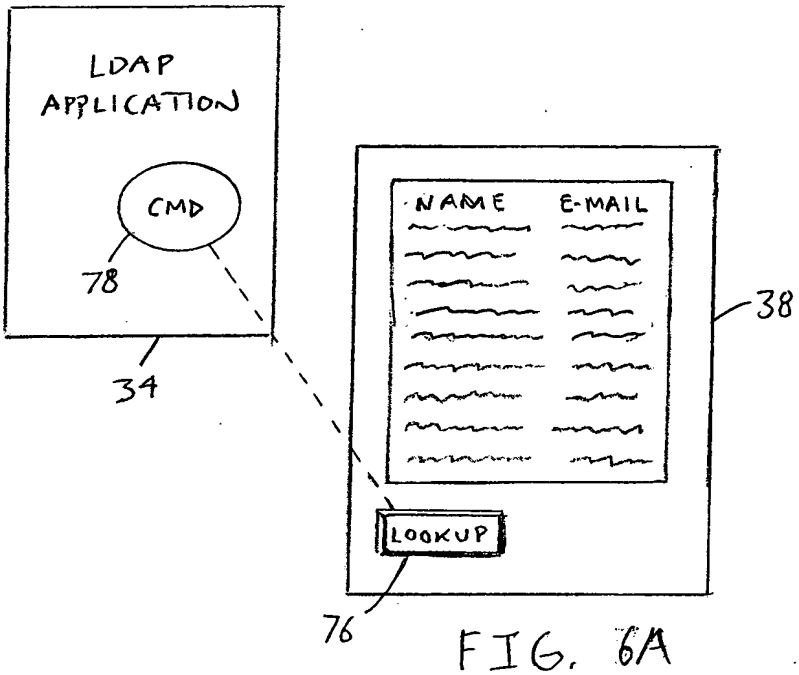
LDAP
APPLICATION
CMD
78
34
NAME
E-MAIL
38
LOOKUP
76

FIG. 6A

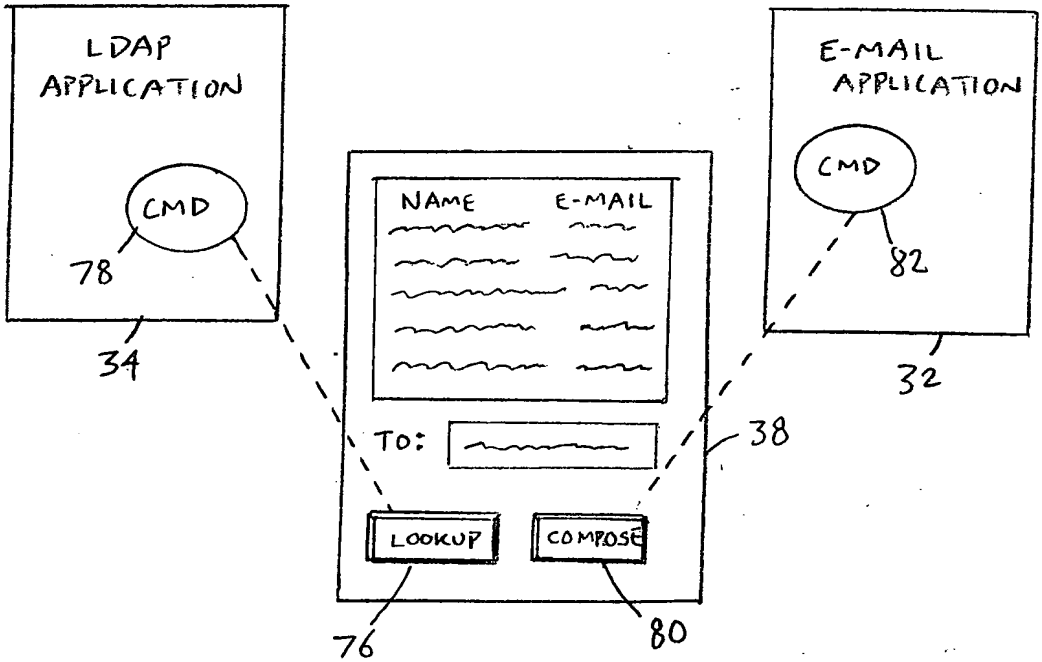
LDAP
APPLICATION
CMD
78
34
NAME
E-MAIL
E-MAIL
APPLICATION
CMD
82
32
TO:
38
LOOKUP
COMPOSE
76
80

FIG. 6B

FIG. 7A

Name	Stephen		
Root	RootApp		
Start	RootApp.Menu	Welcome Stephen	Welcome to ToGo
App	RootApp		
		Main Menu	
App	RootApp.Menu	LDAP	StartApplicationInfoName
Command	RootApp.Menu	Email	StartApplicationInfoName
Command	RootApp.Menu	Contacts	StartApplicationInfoName
Command	RootApp.Menu	Settings	StartApplicationInfoName
Command	RootApp.Menu		
		LDAP	ToGo LDAP
App	RootApp.LDAPSearch	Search	searchAddress
Command	RootApp.LDAPSearch	searchAddress	Search
BusListener	RootApp.LDAPSearch	Exit	StartApplicationInfoName
Command	RootApp.LDAPSearch		
		LDAP	LDAP Search Results:
App	RootApp.LDAPList	Open	openAddress
Command	RootApp.LDAPList	openAddress	Open
BusListener	RootApp.LDAPList	Back	StartApplicationInfoName
Command	RootApp.LDAPList		
		LDAP	LDAP Record:
App	RootApp.LDAPRecord	<<<	previousButton
Command	RootApp.LDAPRecord	previousButton	Previous
BusListener	RootApp.LDAPRecord	>>>	nextButton
Command	RootApp.LDAPRecord	nextButton	Next
BusListener	RootApp.LDAPRecord	Back	StartApplicationInfoName
Command	RootApp.LDAPRecord	Send Mail	sendMailAddress
Command	RootApp.LDAPRecord	sendMailAddress	sendEmail
BusListener	RootApp.LDAPRecord	Add To Contacts	addToContactsFromLdapAddress
Command	RootApp.LDAPRecord	addToContactsFrom	addToContacts
BusListener	RootApp.LDAPRecord	LdapAddress	
		Settings	Settings
App	RootApp.Settings	Save	saveAddress
Command	RootApp.Settings	saveAddress	Save
BusListener	RootApp.Settings	Cancel	StartApplicationInfoName
Command	RootApp.Settings		
		Email	Inbox:
App	RootApp.EmailInbox	Get Mail	getMailAddress
Command	RootApp.EmailInbox	getMailAddress	GetMail
BusListener	RootApp.EmailInbox	Open	openAddress
Command	RootApp.EmailInbox	openAddress	Open
BusListener	RootApp.EmailInbox	Compose	StartApplicationInfoName
Command	RootApp.EmailInbox	Exit	StartApplicationInfoName
Command	RootApp.EmailInbox		
		Email	
App	RootApp.EmailCompose	Send	sendAddress
Command	RootApp.EmailCompose	sendAddress	sendMail
BusListener	RootApp.EmailCompose		

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FIG. 7B

com.bonitasoftware.atk.basics.RootApplication

com.bonitasoftware.togo.menu.MenuApplication
RootApp.LDAPSearch
RootApp.EmailInbox
RootApp.ContactsList
RootApp.Settings

com.bonitasoftware.togo.ldap.LdapSearchApplication com.bonitasoftware.atk.basics.View

RootApp.Menu

com.bonitasoftware.togo.ldap.LdapListApplication com.bonitasoftware.atk.basics.View

RootApp.LDAPSearch

com.bonitasoftware.togo.ldap.LdapRecordApplication com.bonitasoftware.atk.basics.View

RootApp.LDAPList

com.bonitasoftware.togo.ldap.LdapSettingsApplication com.bonitasoftware.atk.basics.View
save

RootApp.Menu

com.bonitasoftware.togo.email.InboxApplication com.bonitasoftware.atk.basics.View
GetMail

open

RootApp.EmailCompose
RootApp.Menu

com.bonitasoftware.togo.email.ComposeApplication com.bonitasoftware.atk.basics.View

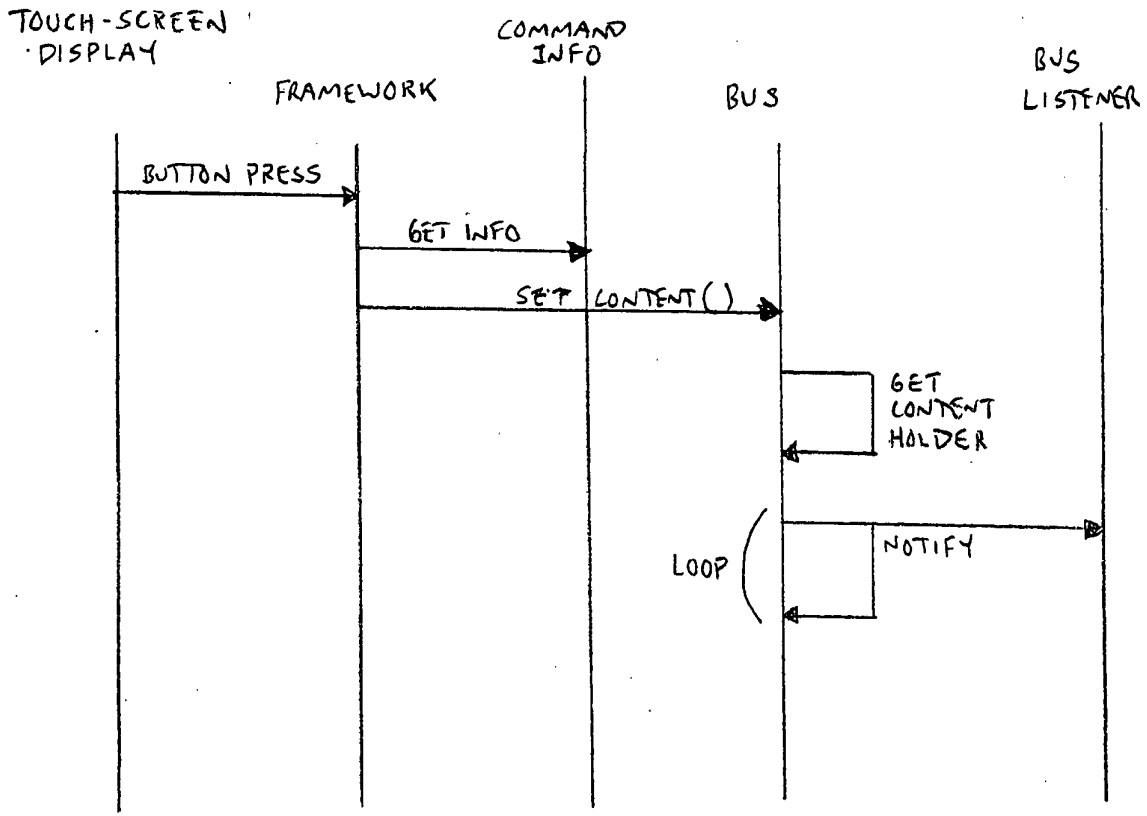
TOUCH-SCREEN DISPLAY
FRAMEWORK
COMMAND INFO
BUS
BUS LISTENER
BUTTON PRESS
GET INFO
SET CONTENT()
GET CONTENT HOLDER
LOOP
NOTIFY

FIG. 9

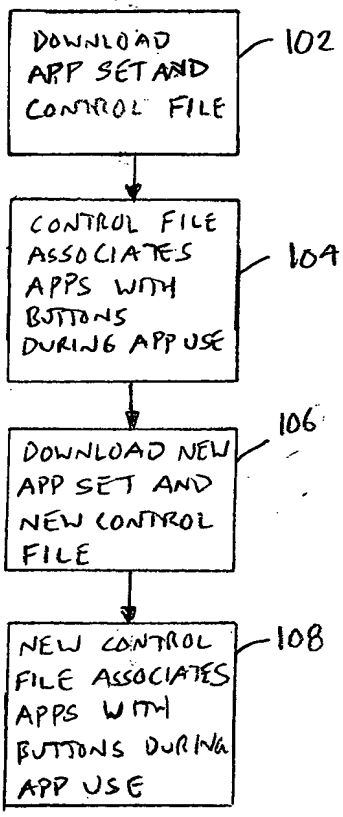
DOWNLOAD APP SET AND CONTROL FILE
102
CONTROL FILE ASSOCIATES APPS WITH BUTTONS DURING APP USE
104
DOWNLOAD NEW APP SET AND NEW CONTROL FILE
106
NEW CONTROL FILE ASSOCIATES APPS WITH BUTTONS DURING APP USE
108

FIG. 10

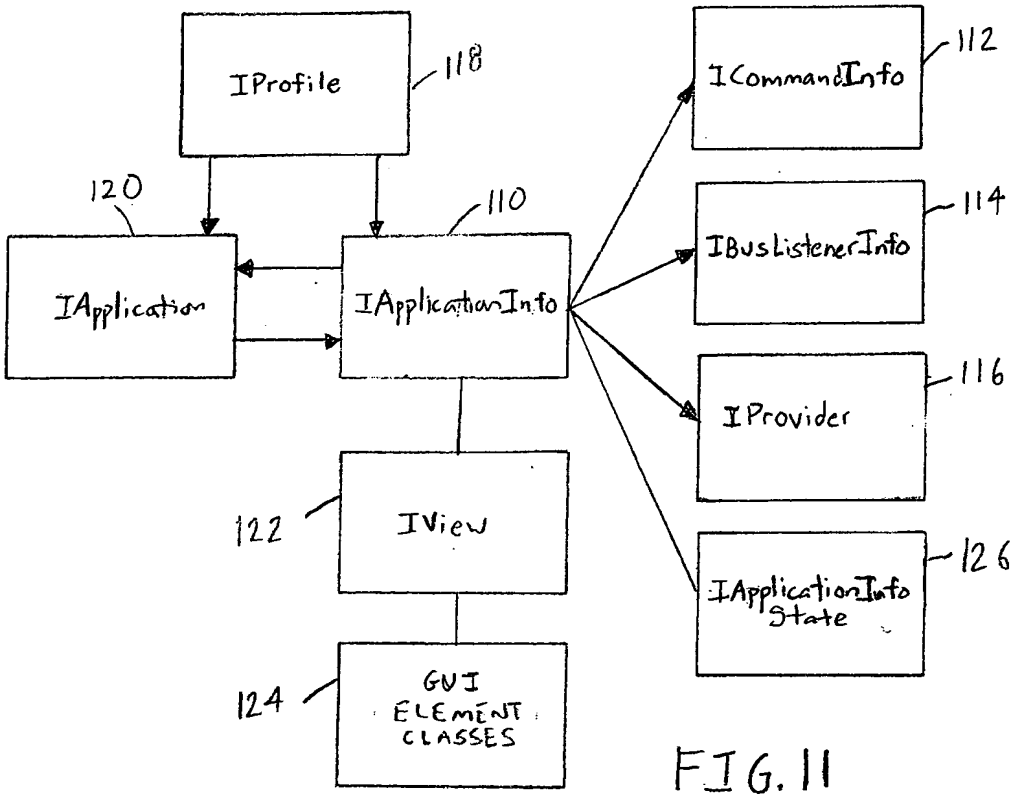
IProfile
118
ICommandInfo
112
120
110
IApplication
IApplicationInfo
IBusListenerInfo
114
IProvider
116
122
IView
IApplicationInfo State
126
124
GUI ELEMENT CLASSES

FIG. 11

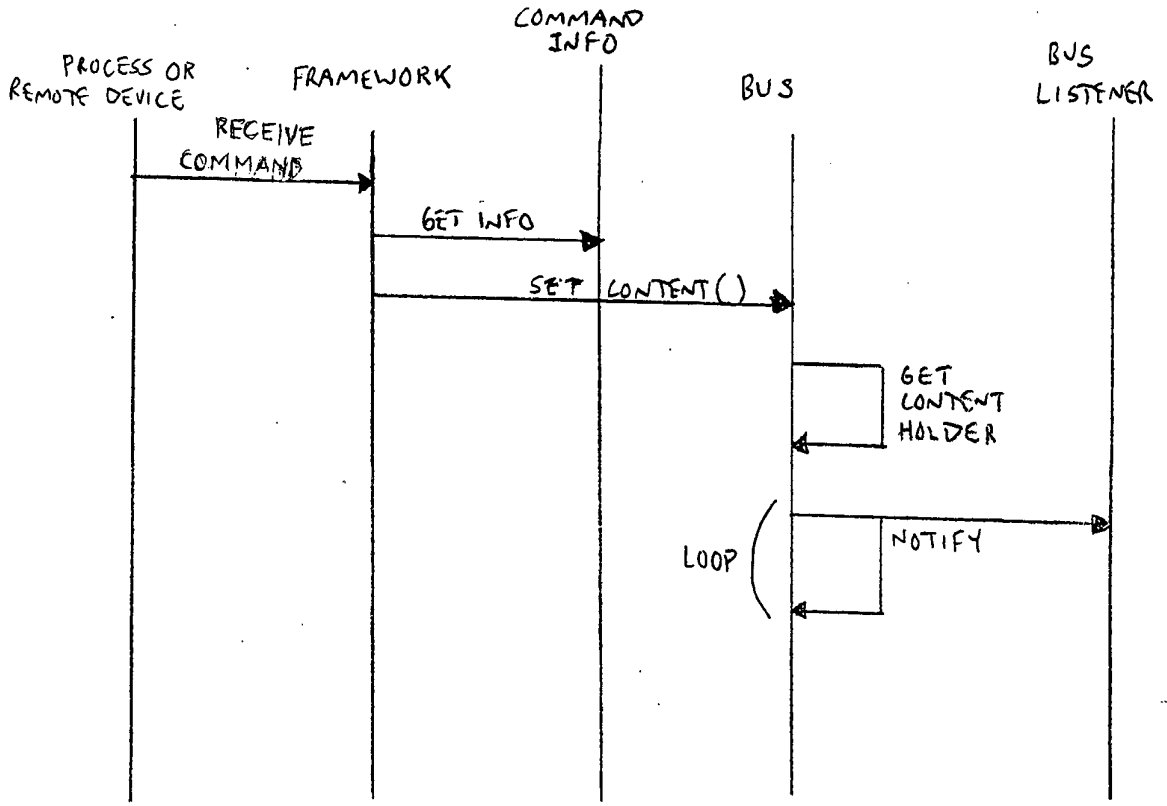
PROCESS OR REMOTE DEVICE
FRAMEWORK
COMMAND INFO
BUS
BUS LISTENER
RECEIVE COMMAND
GET INFO
SET CONTENT()
GET CONTENT HOLDER
LOOP
NOTIFY

FIG. 12

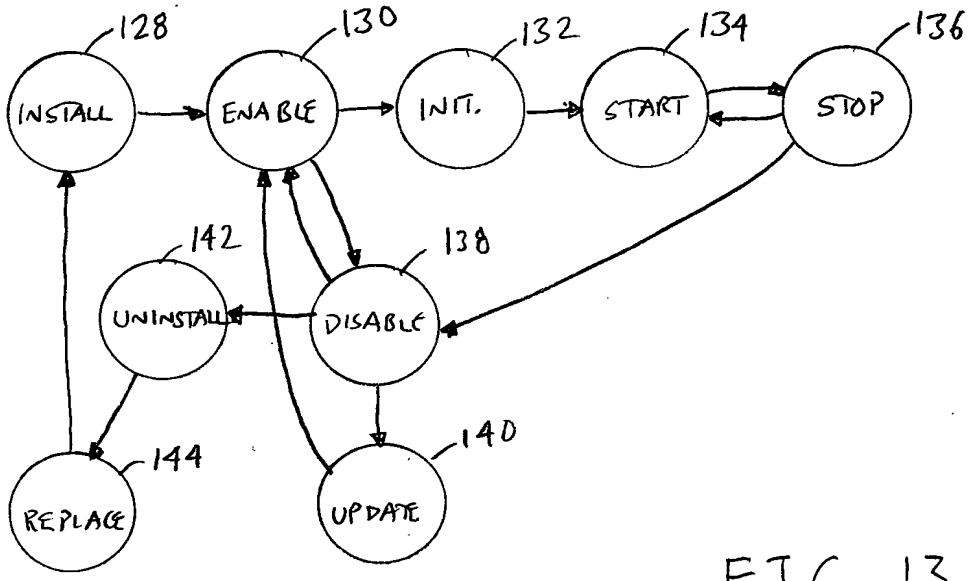
128
130
132
134
136
INSTALL
ENABLE
INIT.
START
STOP
142
138
UNINSTALL
DISABLE
144
140
REPLACE
UPDATE

FIG. 13